

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

Our Docket No.: **I69.12-0601**

Date: December 5, 2003

First Named Inventor: **Roger L. Hipwell, Jr.**

Title: **TRANSDUCER-LEVEL MICROACTUATOR FOR A DISC  
DRIVE SYSTEM AND IMPROVED METHOD OF FABRICATION  
THEREFOR**

Express Mail No.: **EV 302259873 US**

**APPLICATION ELEMENTS**

ADDRESS TO: **Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**



1. ☒ Fee Calculation Sheet  
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status

3. ☒ Specification Total Pages **[33]**  
- Descriptive title of the invention  
- Cross References to Related Applications  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claims  
- Abstract of the Disclosure

4. ☒ Drawings (35 U.S.C. 113) Total Sheets **[19]**

5. ☒ Oath or Declaration Total Pages **[4]**

- a. ☒ Newly Executed (original or copy)  
b. ☐ Copy from a prior application (37 C.F.R. 1.63(d) - for continuation/divisional with Box 18 completed)

**[Mark Box 5 below]**

i. ☐ **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b)

6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)  
8. Nucleotide and/or Amino Acid Sequence Submission (*If applicable, all necessary*)  
a. ☐ Computer Readable Copy (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies; or  
ii. ☐ Paper  
c. ☐ Statements verifying identify of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))  
10. ☒ 37 C.F.R. 3.73(b) Submission  
☒ Power of Attorney  
11. ☐ English Translation Document (*if applicable*)  
12. ☒ Information Disclosure Statement with copies of 3 Citations as necessary  
13. ☐ Preliminary Amendment Total Pages **[ ]**  
14. ☒ Return Receipt Postcard (*Should be specifically itemized*)  
15. ☐ Certified Copy of Priority document(s) (*If foreign priority is claimed*)  
16. ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Application must attach form PTO/SB/35 or its equivalent  
17. ☒ Other Express Mail Cover Sheet and Associate Power of Attorney

18. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Division ☐ Continuation-in-part (CIP) of prior Application No.

Prior Application Information: Examiner \_\_\_\_\_ Group Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

ATTY NAME  
AND REG. NO.

**Gayle A. Bush**

52,677

SIGNATURE:

ADDRESS


**Kinney & Lange, P.A.  
THE KINNEY & LANGE BUILDING  
312 South Third Street  
Minneapolis, MN 55415-1002**

TELEPHONE

**(612) 339-1863**

FAX: **(612) 339-6580**

FEE TRANSMITTAL		Complete if Known																																																																																																																																																	
		Application No.																																																																																																																																																	
		Filing Date	Herewith																																																																																																																																																
		First Named Inventor	Roger L. Hipwell, Jr.																																																																																																																																																
		Group Art Unit																																																																																																																																																	
		Examiner Name																																																																																																																																																	
Total Amount of Payment \$1080.00		Atty. Docket Number	169.12-0601																																																																																																																																																
METHOD OF PAYMENT (Check One)		FEE CALCULATION (Continued)																																																																																																																																																	
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account <u>No.11-0982</u> . Deposit Account Name: Kinney & Lange, P.A. A duplicate copy of this communication is enclosed		<b>3. ADDITIONAL FEES</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - Late filing fee or oath</td><td>—</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>—</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td>—</td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For Filing a Request for Reexamination</td><td>—</td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td>—</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td>—</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td>—</td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td>—</td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td>—</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td>—</td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td>—</td></tr> <tr><td>1814</td><td>110</td><td>2814</td><td>55</td><td>Terminal Disclaimer Fee</td><td>—</td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td>—</td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td>—</td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility/Reissue issue fee</td><td>—</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td>—</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td>—</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td>—</td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Statement</td><td>—</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td><u>40</u></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>—</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td>—</td></tr> <tr><td colspan="5" style="text-align: right;">Subtotal (3) \$40.00</td><td></td></tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid	1051	130	2051	65	Surcharge - Late filing fee or oath	—	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	—	1053	130	1053	130	Non-English specification	—	1812	2,520	1812	2,520	For Filing a Request for Reexamination	—	1251	110	2251	55	Extension for reply within first month	—	1252	420	2252	210	Extension for reply within second month	—	1253	950	2253	475	Extension for reply within third month	—	1254	1,480	2254	740	Extension for reply within fourth month	—	1255	2,010	2255	1,005	Extension for reply within fifth month	—	1402	330	2402	165	Filing a brief in support of an appeal	—	1403	290	2403	145	Request for oral hearing	—	1814	110	2814	55	Terminal Disclaimer Fee	—	1452	110	2452	55	Petition to revive - unavoidable	—	1453	1,330	2453	665	Petition to revive - unintentional	—	1501	1,330	2501	665	Utility/Reissue issue fee	—	1502	480	2502	240	Design issue fee	—	1460	130	1460	130	Petitions to the Commissioner	—	1807	50	1807	50	Petitions related to provisional applications	—	1806	180	1806	180	Submission of Information Disclosure Statement	—	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	<u>40</u>	1801	770	2801	385	Request for Continued Examination (RCE)	—	Other fee (specify) _____					—	Subtotal (3) \$40.00					
Large Entity Fee Code	Large Entity Fee (\$)			Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee paid																																																																																																																																												
1051	130	2051	65	Surcharge - Late filing fee or oath	—																																																																																																																																														
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	—																																																																																																																																														
1053	130	1053	130	Non-English specification	—																																																																																																																																														
1812	2,520	1812	2,520	For Filing a Request for Reexamination	—																																																																																																																																														
1251	110	2251	55	Extension for reply within first month	—																																																																																																																																														
1252	420	2252	210	Extension for reply within second month	—																																																																																																																																														
1253	950	2253	475	Extension for reply within third month	—																																																																																																																																														
1254	1,480	2254	740	Extension for reply within fourth month	—																																																																																																																																														
1255	2,010	2255	1,005	Extension for reply within fifth month	—																																																																																																																																														
1402	330	2402	165	Filing a brief in support of an appeal	—																																																																																																																																														
1403	290	2403	145	Request for oral hearing	—																																																																																																																																														
1814	110	2814	55	Terminal Disclaimer Fee	—																																																																																																																																														
1452	110	2452	55	Petition to revive - unavoidable	—																																																																																																																																														
1453	1,330	2453	665	Petition to revive - unintentional	—																																																																																																																																														
1501	1,330	2501	665	Utility/Reissue issue fee	—																																																																																																																																														
1502	480	2502	240	Design issue fee	—																																																																																																																																														
1460	130	1460	130	Petitions to the Commissioner	—																																																																																																																																														
1807	50	1807	50	Petitions related to provisional applications	—																																																																																																																																														
1806	180	1806	180	Submission of Information Disclosure Statement	—																																																																																																																																														
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	<u>40</u>																																																																																																																																														
1801	770	2801	385	Request for Continued Examination (RCE)	—																																																																																																																																														
Other fee (specify) _____					—																																																																																																																																														
Subtotal (3) \$40.00																																																																																																																																																			
2. <input checked="" type="checkbox"/> Check Enclosed																																																																																																																																																			
FEE CALCULATION																																																																																																																																																			
<b>1. BASIC FILING FEE</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td>[770] Utility Filing Fee</td></tr> <tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td>[ ] Design Filing Fee</td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>[ ] Reissue Filing Fee</td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>[ ] Prov. Filing Fee</td></tr> <tr><td colspan="5" style="text-align: right;">Subtotal (1) \$770.00</td></tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	1001	770	2001	385	[770] Utility Filing Fee	1002	340	2002	170	[ ] Design Filing Fee	1004	770	2004	385	[ ] Reissue Filing Fee	1005	160	2005	80	[ ] Prov. Filing Fee	Subtotal (1) \$770.00																																																																																																																								
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description																																																																																																																																															
1001	770	2001	385	[770] Utility Filing Fee																																																																																																																																															
1002	340	2002	170	[ ] Design Filing Fee																																																																																																																																															
1004	770	2004	385	[ ] Reissue Filing Fee																																																																																																																																															
1005	160	2005	80	[ ] Prov. Filing Fee																																																																																																																																															
Subtotal (1) \$770.00																																																																																																																																																			
<b>2. EXTRA CLAIM FEES</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Number Claims</th> <th>Prior</th> <th>Extra</th> <th>Fee from Below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td><u>35</u></td> <td>-</td> <td><u>20</u></td> <td>= <u>15</u> x <u>18</u></td> <td>= <u>270</u></td> </tr> <tr> <td>Indep.</td> <td><u>3</u></td> <td>-</td> <td><u>3</u></td> <td>= <u>0</u> x <u>86</u></td> <td>= <u>0</u></td> </tr> <tr> <td colspan="6">Multiple Dependent Claims _____ = _____</td> </tr> <tr> <td colspan="6">Insert 3 and 20, or number previously paid if greater; Reissue see below</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>1201</td><td>86</td><td>2201</td><td>43</td><td>Independent claims in excess of 3</td></tr> <tr><td>1203</td><td>290</td><td>2203</td><td>145</td><td>Multiple Dependent Claim</td></tr> <tr><td>1204</td><td>86</td><td>2204</td><td>43</td><td>Reissue Independent Claims Over Original Patent</td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>Reissue claims in excess of 20 and over original patent</td></tr> <tr><td colspan="5" style="text-align: right;">Subtotal (2) \$270.00</td></tr> </tbody> </table>			Number Claims	Prior	Extra	Fee from Below	Fee Paid	Total	<u>35</u>	-	<u>20</u>	= <u>15</u> x <u>18</u>	= <u>270</u>	Indep.	<u>3</u>	-	<u>3</u>	= <u>0</u> x <u>86</u>	= <u>0</u>	Multiple Dependent Claims _____ = _____						Insert 3 and 20, or number previously paid if greater; Reissue see below						Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Description	1202	18	2202	9	Claims in excess of 20	1201	86	2201	43	Independent claims in excess of 3	1203	290	2203	145	Multiple Dependent Claim	1204	86	2204	43	Reissue Independent Claims Over Original Patent	1205	18	2205	9	Reissue claims in excess of 20 and over original patent	Subtotal (2) \$270.00																																																																																					
	Number Claims	Prior	Extra	Fee from Below	Fee Paid																																																																																																																																														
Total	<u>35</u>	-	<u>20</u>	= <u>15</u> x <u>18</u>	= <u>270</u>																																																																																																																																														
Indep.	<u>3</u>	-	<u>3</u>	= <u>0</u> x <u>86</u>	= <u>0</u>																																																																																																																																														
Multiple Dependent Claims _____ = _____																																																																																																																																																			
Insert 3 and 20, or number previously paid if greater; Reissue see below																																																																																																																																																			
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Description																																																																																																																																															
1202	18	2202	9	Claims in excess of 20																																																																																																																																															
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																															
1203	290	2203	145	Multiple Dependent Claim																																																																																																																																															
1204	86	2204	43	Reissue Independent Claims Over Original Patent																																																																																																																																															
1205	18	2205	9	Reissue claims in excess of 20 and over original patent																																																																																																																																															
Subtotal (2) \$270.00																																																																																																																																																			

Signature  Reg. No. 52,677  
 Date 12/5/03 Deposit Account No. 11-0982